#### INTERNATIONAL SEARCH REPORT

International application No. PCT/SE 2003/001825

#### A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H03F 1/32
According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

#### IPC7: H03F, H04L, H04K, H03B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

### SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

# EPO-INTERNAL, WPI DATA, PAJ

I C.	DOCOMENIA	CONSIDERED TO	DE KELEVAINI	
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 2003058959 A1 (MANOUCHEHR S. RAFIE ET AL), 27 March 2003 (27.03.2003), see page 4 paragraph 0048-0044; page 4 page 0056 - 0057; page 5; fig 4, 8	1,7,13,19
Y	` ~~~	2,8,14,20
x	US 5923712 A (ROBERT RICHARD LEYENDECKER ET AL), 13 July 1999 (13.07.1999), column 2, line 59 - column 3, line 50, figures 4,5,6,7	1,7,13,19
Y		2,8,14,20
Y	 GB 2385730 A (MOTOROLA INC), 27 August 2003 (27.08.2003), page 3, line 24 - page 8, line 2	2,8,14,20
	. <b></b>	

- Special categories of cited documents:
- document defining the general state of the art which is not considered to be of particular relevance
- earlier application or patent but published on or after the international filing date
- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- document referring to an oral disclosure, use, exhibition or other
- document published prior to the international filing date but later than the priority date claimed
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- document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- "&" document member of the same patent family

**2 2 -**06- 2004

Date of mailing of the international search report Date of the actual completion of the international search

11 June 2004

Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86

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International application No. PCT/SE 2003/001825

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Y	US 5914620 A (BRENT S. SIMONS ET AL), 22 June 1999 (22.06.1999), column 2, line 51 - column 5, line 53	2,8,14,20
A	US 6108385 A (WILLIAM SPENCER WORLEY, III), 22 August 2000 (22.08.2000), see whole document	1-24
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

30/04/2004

International application No.

PCT/SE 2003/001825

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Form PCT/ISA/210 (patent family annex) (January 2004)